

# CONTENTS OF AGRICULTURAL, ECOSYSTEMS AND ENVIRONMENT, VOLUME 30

VOL. 30 NOS. 1-2

JANUARY 1990

The comparative productivity of organic agriculture G. Stanhill (Bet Dagan, Israel) .....	1
Grain corn responses to five tillage methods under different European corn borer infestations M. Hudon, G. Boivin (Saint-Jean-sur-Richelieu, Que., Canada) and R. Boily (Laval, Que., Canada) .....	27
Rice production in Madagascar: regression analysis with particular reference to pest control J. Baumgärtner, B. Graf, V. Delucchi (Zurich, Switzerland), U. Regev (Beer-Sheva, Israel), N. Rahalivavololona and Ph. Zahner (Ambohitsilaozana, Madagascar) .....	37
Comparison of several solid wastes on the growth of vegetable crops M.H. Wong (Kowloon, Hong Kong) .....	49
Use of weather data to forecast outbreaks of soldier fly, <i>Inopus</i> spp. (Diptera: Stratiomyidae) in Queensland sugar cane P.G. Allsopp (Bundaberg, Qld., Australia) .....	61
Long-term effects of nitrogenous fertilizers on grassland earthworms (Oligochaeta: Lumbricidae): their relation to soil acidification W.-C. Ma (Arnhem, The Netherlands), L. Brussaard and J.A. de Ridder (Haren, The Netherlands) .....	71
Interactive effects of CO <sub>2</sub> and environment on net photosynthesis of water-lily S.G. Allen, S.B. Idso and B.A. Kimball (Phoenix, AZ, U.S.A.) .....	81
Anaerobic digestion of crops and farm wastes in the United Kingdom R.E.H. Sims (Palmerston North, New Zealand) and K.M. Richards (Harwell, Gt. Britain) .....	89
Studies of the territorial dynamics of the red imported fire ant ( <i>Solenopsis invicta</i> Buren, Hymenoptera: Formicidae) A.T. Showler, R.M. Knaus and T.E. Reagan (Baton Rouge, LA, U.S.A.) .....	97
Decomposition and nutrient release from wheat and fababean straw under field conditions K.L. Kalburtzi, D.S. Veresoglou and D. Vokou (Thessaloniki, Greece) .....	107
INVADE: Towards the simulation of plant spread B.A. Auld (Orange, N.S.W., Australia) and B.G. Coote (Sydney, N.S.W., Australia) .....	121
<b>Short Communication</b>	
Nitrogen fixation of soybean and alfalfa on sewage sludge-amended soils F. Eivazi (Jefferson City, MO, U.S.A.) .....	129
<b>Book Reviews</b>	
Environmental acidification .....	137
Acidification .....	138
Planning for drought .....	140
Modelling agricultural production .....	142
Fruit flies .....	143
Aphids .....	146
Poisonous plants .....	148
Shrub-steppe .....	149
Agricultural environments .....	152
Sustainable development and state of the environment .....	154

Chemicals and the environment .....	156
Land transformation .....	158
Soil fertility and production .....	159
Energy in agriculture .....	161
Weed control .....	163
Allelochemicals .....	163
Crop-pest interactions .....	166
Stereoselectivity of pesticides .....	167

<b>Announcements</b> .....	169
----------------------------	-----

**VOL. 30 NOS. 3-4****APRIL 1990**

The citrus psylla, <i>Trioxa erytrae</i> (Del Guercio) (Hemiptera: Trioziidae): a review M.A. van den Berg (Nelspruit, South Africa) .....	171
Bioassay to determine the effect of commercial preparations of <i>Bacillus thuringiensis</i> on entomogenous rhabditoid nematodes G.O. Poinar Jr., G.M. Thomas (Berkeley, CA, U.S.A.) and B. Lighthart (Corvallis, OR, U.S.A.) .....	195
Application of expert systems to study of acid soils in Rwanda C.F. Yamoah, J.R. Burleigh and M.R. Malcolm (Kigali, Rwanda) .....	203
Between-farm variability in yield responses to inputs of fertilizers and herbicide applied to rainfed lowland rice in the Philippines J.F. Angus, C. Fazekas de St. Groth (Canberra, A.C.T., Australia) and R.C. Tasic (Antique, Philippines) .....	219
Growth and value of <i>Chlorella salina</i> grown on highly saline sewage effluent P.K. Wong and K.-Y. Chan (Shatin, Hong Kong) .....	235
Effects of fly ash on yields and elemental composition of two vegetables, <i>Brassica parachinensis</i> and <i>B. chinensis</i> J.W.C. Wong and M.H. Wong (Shatin, Hong Kong) .....	251
Biological and economic optima in a tropical grazing ecosystem in Australia A.-M.N. Izac, K.A. Anaman and R. Jones (St. Lucia, Qld., Australia) .....	265
Triazine herbicide fate in a no-tillage corn ( <i>Zea mays</i> L.)-crownvetch ( <i>Coronilla varia</i> L.) "living mulch" system J.K. Hall and N.L. Hartwig (University Park, PA, U.S.A.) .....	281
A nutrient-transfer model to explain the fate of phosphorus and sulphur in a grazed hill-country pasture S. Saggat, A.D. Mackay, M.J. Hedley, M.G. Lambert and D.A. Clark (Palmerston North, New Zealand) .....	295
Effects of sulphur dioxide and hydrogen fluoride, singly and in combination, on growth and yield of wheat in open- top chambers G. Davieson, F. Murray and S. Wilson (Murdoch, W.A., Australia) .....	317
Seasonal fluctuations of <i>Lygus lineolaris</i> (Palisot de Beauvois) (Hemiptera: Miridae) nymphal populations in strawberry fields N.J. Bostanian (St. Jean-sur-Richelieu, Que., Canada), G. Mailloux (Quebec, Que., Canada), M.R. Binns (Ottawa, Ont., Canada) and P.O. Thibodeau (Ste-Foy, Que., Canada) .....	327
An analytical assessment of agroforestry practices resulting from interplanting cocoa and kola on soil properties in south-western Nigeria O. Ekanade (Ile-Ife, Nigeria) and N.E. Egbe (Ibadan, Nigeria) .....	337
<b>Author Index</b> .....	347
<b>Contents of Agriculture Ecosystems and Environment, Volume 30</b> .....	351
<b>Guide for Authors</b> .....	353

